

### ABSTRACT

This invention relates to LANs at a customers' premise, especially to the HomePNA technique. The idea of the invention is that voice band terminals and HomePNA (HPNA) stations are hidden from a distribution network by a band division filter in a way that performance of ADSL is not degraded by presence of an HPNA LAN. The band division filter incorporates two subfilters: a POTS filter and an HPNA filter. The latter implements a band stop function maximizing insertion loss at the ADSL band. The band division filter can be installed to needed telephone sockets.

**32 Claims, 6 Drawing Sheets**

(Fig.7)

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